

IN THE CLAIMS:

Please cancel Claims 39, 40, 45, 50, 51 and 56 without prejudice or disclaimer of subject matter. Please amend Claims 1 to 8, 10 to 38, 41, 46 to 49, 52, 54, 55 and 57 as shown below. The claims, as pending in the subject application, now read as follows:

1. (Currently amended) An information processing apparatus which is connected to an image input device and image output device ~~via a communication medium,~~ comprising:

an input control unit adapted to control ~~means for controlling~~ an image input process by the image input device;

an output control unit adapted to control ~~means for controlling~~ an image output process by the image output device;

a storage unit adapted to store information of any one of ~~means for storing~~ a plurality of ~~image processing modes,~~ and input setups ~~setup information~~ and any one of a plurality of output setups, wherein the information corresponds ~~corresponding~~ to ~~[[the]]~~ each of a plurality of image processing modes; and

an acquisition unit adapted to ~~means for acquiring~~ acquire the information ~~of an input setup information~~ and an output setup information ~~corresponding~~ to the image processing mode selected by an operator from said storage unit means,

wherein said input control unit means controls the image input process of the image input device on the basis of the information of the input setup ~~information~~ acquired by said acquisition unit means, and said output control unit means controls the image output

process of the image output device on the basis of the information of the output setup ~~information~~ acquired by said acquisition unit means.

2. (Currently amended) The apparatus according to claim 1, further comprising a display unit adapted to display ~~means for displaying~~ the plurality of image processing modes.

3. (Currently amended) The apparatus according to claim 2, wherein the image input device is an image scanner for scanning a document image, and said input control unit means is an image scan controller ~~control means~~ for controlling an image scan process by the image scanner.

4. (Currently amended) The apparatus according to claim 3, wherein the image output device is a printer for printing an image, and said output control unit means is a print controller ~~control means~~ for controlling an image print process by the printer.

5. (Currently amended) The apparatus according to claim 4, wherein the plurality of image processing modes are a plurality of copy modes which pertain to copy operation that uses the image scanner and the printer, and the information of the input setup ~~information~~ and output setup is ~~is~~ ~~are~~ information of a scan setup ~~information~~ and print setup ~~information~~ corresponding to each of the plurality of copy modes.

6. (Currently amended) The apparatus according to claim 5, wherein the information of the scan setup information includes ~~setup~~ information which pertains to a scan method and scan resolution.

7. (Currently amended) The apparatus according to claim 5 ~~[[6]]~~, wherein the information of the print setup information includes ~~setup~~ information which pertains to a print method, print resolution, print medium type, and print quality.

8. (Currently amended) The apparatus according to claim 7, wherein said scan control unit means controls the image scanner to scan an image at a resolution lower than the scan resolution contained in the scan setup ~~information~~.

9. (Original) The apparatus according to claim 4, wherein the printer is a printer with an image scan function, which is integrated with the image scanner, and the image scanner is detachable from the printer with the image scan function.

10. (Currently amended) The apparatus according to claim 2, further comprising a generation unit adapted to generate ~~means for generating~~ a plurality of image processing modes from the information of the plurality of input setups ~~setup information~~ for controlling the image input device and the information of the plurality of output setups ~~setup information~~ for controlling the image output device,

wherein said storage unit means stores the information of an input setup ~~information~~ and output setup ~~information~~ in correspondence with each of the plurality of

generated image processing modes, and said display unit means displays each of the plurality of image processing modes stored in said storage unit means.

11. (Currently amended) The apparatus according to claim 4, wherein said storage unit means stores scan medium size information and print medium size information, which are selected by an operator, and

said apparatus further comprises:

determination unit adapted to determine means for determining a copy magnification on the basis of the scan medium size information and print medium size information stored in said storage unit means; and

zoom processing unit adapted to zoom means for zooming an image scanned by the image scanner on the basis of the copy magnification determined by said determination unit means.

12. (Currently amended) An information processing apparatus which is connected to an image input device and image output device ~~via a communication medium~~, comprising:

generation unit adapted to generate means for generating a plurality of image processing modes from information of a plurality of input setups setup information for controlling the image input device, and information of a plurality of output setups setup information for controlling the image output device;

storage unit adapted to store ~~means for storing~~ the information of any one of the plurality of input setups ~~setup information~~ and the information of any one of the plurality of output setups ~~setup information~~, wherein the information corresponds to each of in-correspondence with the plurality of image processing modes; and

display unit adapted to display each of ~~means for displaying~~ the plurality of image processing modes stored in said storage unit such that an operator can select any one of the plurality of the image processing modes ~~means~~.

13. (Currently amended) The apparatus according to claim 12, further comprising:

input control unit adapted to control ~~means for controlling~~ the image input device on the basis of the information of an input setup ~~information~~; and

output control unit adapted to control ~~means for controlling~~ the image output device on the basis of the information of an output setup ~~information~~.

14. (Currently amended) The apparatus according to claim 13, wherein the image input device is an image scanner for scanning a document image, and said input control unit ~~means~~ is an image scan controller ~~control means~~ for controlling an image scan process by the image scanner.

15. (Currently amended) The apparatus according to claim 13 [[14]], wherein the image output device is a printer for printing an image, and said output control unit means is a print controller control means for controlling an image print process by the printer.

16. (Currently amended) The apparatus according to claim 15, wherein said generation unit means generates the plurality of copy modes on the basis of information of scan setup information for controlling the image scanner and information of print setup information for controlling the printer, and said storage unit means stores the information of scan setup information and print setup information in correspondence with each of the plurality of copy modes.

17. (Currently amended) The apparatus according to claim 16, wherein the information of scan setup information includes setup information which pertains to a scan method and scan resolution.

18. (Currently amended) The apparatus according to claim 16 [[17]], wherein the information of print setup information includes setup information which pertains to a print method, print resolution, print medium type, and print quality.

19. (Currently amended) An image processing method in an information processing apparatus which is connected to an image input device and image output device via a communication medium, comprising:

~~the acquisition step of acquiring information of an input setup information~~  
and output setup information corresponding to an image processing mode selected by an operator from ~~input setup information and output setup information pre stored in a~~  
memory, which stores information of any one of a plurality of input setups and any one of a plurality of output setups, wherein the information corresponds to each of a plurality of image processing modes;

~~the input control step of controlling an image input process of the image~~  
input device on the basis of the acquired information of the input setup information  
~~acquired in the acquisition step; and~~

~~the output control step of controlling an image output process of the image~~  
output device on the basis of the acquired information of the output setup information  
~~acquired in the acquisition step.~~

20. (Currently amended) The method according to claim 19, further comprising ~~the display control step of displaying the plurality of image processing modes~~ on a display.

21. (Currently amended) The method according to claim 20, wherein the image input device is an image scanner for scanning a document image, and ~~an the input control step comprises the image scan~~ controller controls ~~control step of controlling an~~ image scan process by the image scanner.

22. (Currently amended) The method according to claim 21, wherein the image output device is a printer for printing an image, and ~~a the output control step~~ comprises the print controller controls ~~control step of controlling~~ an image print process by the printer.

23. (Currently amended) The method according to claim 22, wherein the plurality of image processing modes are a plurality of copy modes which pertain to copy operation using the image scanner and the printer, and the information of the input setup ~~information~~ and output setup ~~information are~~ is information of a scan setup information and print setup ~~information~~ corresponding to each of the plurality of copy modes.

24. (Currently amended) The method according to claim 23, wherein the information of the scan setup ~~information~~ includes ~~setup~~ information which pertains to a scan method and scan resolution.

25. (Currently amended) The method according to claim 23 ~~[[24]]~~, wherein the information of the print setup ~~information~~ includes ~~setup~~ information which pertains to a print method, print resolution, print medium type, and print quality.

26. (Currently amended) The method according to claim 25, wherein ~~the scan control step includes the step of controlling~~ the image scanner is controlled to scan an image at a resolution lower than the scan resolution contained in the scan setup ~~information.~~



27. (Currently amended) The method according to claim 20, further comprising:

~~the generation step of~~ generating a plurality of image processing modes from the information of the plurality of input setups ~~setup information~~ for controlling the image input device and the information of the plurality of output setups ~~setup information~~ for controlling the image output device; and

~~the storage step of~~ storing in the memory the information of an input setup ~~information~~ and output setup ~~information~~ in correspondence with each of the plurality of generated image processing modes,

wherein each of ~~the display control step includes the step of displaying on the display~~ the plurality of image processing modes is displayed on the display ~~stored in the storage step~~.

28. (Currently amended) The method according to claim 22, wherein scan medium size information and print medium size information, which are selected by an operator, are pre stored in the memory, and

said method further comprises:

~~the determination step of~~ determining a copy magnification on the basis of the stored scan medium size information and print medium size information; and

~~the zoom processing step of~~ zooming an image scanned by the image scanner on the basis of the determined copy magnification determined in the ~~determination step~~.

29. (Currently amended) An image processing method in an information processing apparatus which is connected to an image input device and image output device ~~via a communication medium~~, comprising:

~~the generation step of~~ generating a plurality of image processing modes from information of a plurality of input setups ~~setup information~~ for controlling the image input device, and information of a plurality of output setups ~~setup information~~ for controlling the image output device;

~~the storage step of~~ storing in a memory the information of any one of the plurality of input setups ~~setup information~~ and the information of any one of the plurality of output setups, wherein the setup information in correspondence with ~~corresponds to~~ each of the plurality of image processing modes; and

~~the display control step of~~ controlling to display on a display each of the plurality of image processing modes such that an operator can select any one of the plurality of the image processing modes ~~stored in the storage step~~.

30. (Currently amended) The method according to claim 29, further comprising:

~~the input control step of~~ controlling the image input device on the basis of the information of an input setup ~~information~~; and

~~the output control step of~~ controlling the image output device on the basis of the information of an output setup ~~information~~.

31. (Currently amended) The method according to claim 30, wherein the image input device is an image scanner for scanning a document image, and ~~an said input control means is the image scan~~ controller controls ~~control step of controlling~~ an image scan process by the image scanner.

32. (Currently amended) The method according to claim 30 ~~[[31]]~~, wherein the image output device is a printer for printing an image, and ~~a said output control means is the print~~ controller controls ~~control step of controlling~~ an image print process by the printer.

33. (Currently amended) The method according to claim 32, wherein ~~the generation step includes the step of generating~~ the plurality of copy modes is generated on the basis of information of scan setup ~~information~~ for controlling the image scanner and information of print setup ~~information~~ for controlling the printer, and ~~the storage step includes the step of storing in the memory the~~ information of scan setup ~~information~~ and print setup ~~information~~ is stored in the memory in correspondence with each of the plurality of copy modes.

34. (Currently amended) The method according to claim 33, wherein the information of scan setup ~~information~~ includes setup information which pertains to a scan method and scan resolution.

35. (Currently amended) The method according to claim 33 [[34]], wherein the information of print setup information includes ~~setup~~ information which pertains to a print method, print resolution, print medium type, and print quality.

36. (Currently amended) A computer readable storage medium which stores a program code of an image processing method in an information processing apparatus which is connected to an image input device and image output device ~~via a communication medium~~, comprising:

an acquisition code for acquiring information of an input setup ~~information~~ and output setup ~~information~~ corresponding to an image processing mode selected by an operator from ~~input setup information and output setup information pre-stored in a~~ memory, which stores information of any one of a plurality of input setups and any one of a plurality of output setups, wherein the information corresponds to each of a plurality of image processing modes;

an input control code for controlling an image input process of the image input device on the basis of the information of the input setup ~~information~~ acquired by the acquisition code; and

an output control code for controlling an image output process of the image output device on the basis of the information of the output setup ~~information~~ acquired by the acquisition code.

37. (Currently amended) A computer readable storage medium which stores a program code of an image processing method in an information processing apparatus which is connected to an image input device and image output device ~~via a communication medium~~, comprising:

a generation code for generating a plurality of image processing modes from information of a plurality of input setups ~~setup information~~ for controlling the image input device, and information of a plurality of output setups ~~setup information~~ for controlling the image output device;

a storage code for storing in a memory the information of any one of the plurality of input setups ~~setup information~~ and the information of any one of the plurality of output setups, wherein the setup information in correspondence with ~~corresponds to~~ each of the plurality of image processing modes; and

a display control code for controlling to display on a display each of the plurality of image processing modes stored by the storage code ~~such that an operator can select any one of the plurality of the image processing modes~~.

38. (Currently amended) A computer readable memory which stores a program code of an image processing method which is implemented using a scanner driver and printer driver in a host computer which is connected to a scanner and a printer ~~via a communication medium~~, comprising:

a copy control code for controlling the scanner driver for controlling a scanning process of the scanner and printer driver for controlling a printing process of the

printer, and controlling a user interface which is used ~~for to make~~ a copy operation and ~~displaying~~ display copy information; and

a shared information storing ~~storage~~ code for storing, in a memory, ~~setup~~ information which is shared and used among the scanner driver, the printer driver, and the copy control code,

wherein the shared information storing code stores information of a plurality of scan setups and a plurality of print setups as copy modes, and

wherein the copy control code acquires information of a scan setup and print setup corresponding to a copy mode selected by an operator from the memory, the information of scan setup is passed to the scanner driver and the information of print setup is passed to the printer driver.

39. and 40. (Canceled)

41. (Currently amended) The medium according to claim 38 ~~[[40]]~~, wherein the copy control code controls to display the plurality of copy modes on the user interface.

42. (Original) The medium according to claim 41, wherein the setup information includes scan document size information and print paper size information.

43. (Original) The medium according to claim 42, wherein the copy control code controls to acquire the scan document size information and print paper size information selected by the operator from the memory, determine a copy magnification on the basis of the acquired scan document size information and print paper size information, and zoom an image scanned by the scanner on the basis of the determined copy magnifications.

44. (Original) The medium according to claim 38, wherein the copy control code controls to generate a plurality of copy modes from the setup information, and display the plurality of generated copy modes on the user interface in correspondence with the setup information.

45. (Canceled)

46. (Currently amended) The medium according to claim 44 ~~[[45]]~~, wherein the copy control code generates the plurality of copy modes from information of a scan setup ~~information~~ and print setup ~~information~~ included in the ~~setup~~ information.

47. (Currently amended) A program for implementing an image processing method in an information processing apparatus which is connected to an image input device and image output device ~~via a communication medium~~, comprising:

~~the acquisition step of acquiring~~ information of an input setup ~~information~~ and output setup ~~information~~ corresponding to an image processing mode selected by an

operator from ~~input setup information and output setup information pre stored in a~~  
~~memory, which stores information of any one of a plurality of input setups and any one of a~~  
~~plurality of output setups, wherein the information corresponds to each of a plurality of~~  
~~image processing modes;~~

~~the input control step of controlling an image input process of the image~~  
~~input device on the basis of the acquired information of the input setup information~~  
~~acquired in the acquisition step; and~~

~~the output control step of controlling an image output process of the image~~  
~~output device on the basis of the acquired information of the output setup information~~  
~~acquired in the acquisition step.~~

48. (Currently amended) A program for implementing an image processing  
method in an information processing apparatus which is connected to an image input  
device and image output device ~~via a communication medium~~, comprising:

~~the generation step of generating a plurality of image processing modes~~  
~~from information of a plurality of input setups setup information for controlling the image~~  
~~output device, and information of a plurality of output setups information for controlling~~  
~~the image output device;~~

~~the storage step of storing in a memory the information of any one of the~~  
~~plurality of input setups setup information and the information of any one of the plurality~~  
~~of output setups, wherein the setup information corresponds to each of in correspondence~~  
~~with the plurality of image processing modes; and~~



~~the display control step of controlling to display on a display each of the plurality of image processing modes such that an operator can select any one of the plurality of the image processing modes stored in the storage step.~~

49. (Currently amended) A program code for implementing an image processing method that uses a scanner driver and printer driver in a host computer which is connected to a scanner and printer ~~via a communication medium~~, comprising:

~~the copy control step of controlling the scanner driver for controlling a scanning process of the scanner and printer driver for controlling a printing process of the printer, and controlling a user interface which is used for to make for a copy operation and displaying display copy information; and~~

~~the shared information storage step of storing, in a memory, setup information which is shared and used among the scanner driver, the printer driver, and the copy control step controlling,~~

~~wherein information of a plurality of scan setups and a plurality of print setups is stored as copy modes, and~~

~~wherein information of a scan setup and print setup corresponding to a copy mode selected by an operator is acquired from the memory, the information of scan setup is passed to the scanner driver and the information of print setup is passed to the printer driver.~~

50. and 51. (Canceled).

52. (Currently amended) The program according to claim 49 [[51]], wherein ~~the copy control step includes the step of controlling to display~~ the plurality of copy modes is displayed on the user interface.

53. (Original) The program according to claim 52, wherein the setup information includes scan document size information and print paper size information.

54. (Currently amended) The program according to claim 52 [[53]], wherein ~~the copy control step includes the step of controlling to acquire~~ the scan document size information and print paper size information selected by the operator are acquired from the memory, ~~determine~~ a copy magnification is determined on the basis of the acquired scan document size information and print paper size information, and ~~zoom~~ an image scanned by the scanner is zoomed on the basis of the determined copy magnifications.

55. (Currently amended) The program according to claim 49, wherein ~~the copy control step includes the step of controlling to generate~~ a plurality of copy modes is generated from the ~~setup~~ information, and ~~display~~ the plurality of ~~generated~~ copy modes is displayed on the user interface in correspondence with the ~~setup~~ information.

56. (Canceled).

57. (Currently amended) The program according to claim 55 [[56]],  
wherein ~~the copy control step includes the step of generating the plurality of copy modes~~ is  
generated from information of scan setup ~~information~~ and print setup ~~information~~ included  
in the ~~setup~~ information.